



R454C refrigerant (Opteon™ XL20).

Low GWP and high energy efficiency.



Introduction R454C (Opteon™ XL20) is a non-ODP, low GWP (148) refrigerant with properties that make it suitable as a replacement for R-404A in new equipment. It has a safety classification of A2L, which means that it is mildly flammable and has a much better safety profile than A3 highly flammable industrial gases, such as Propane (R290). Close match to R22 based technologies.

Specifics/facts R454C (Opteon™ XL20) is a HFO blend (R32/R1234yf). This is a close match to R22 based technology, but it is also a valid solution for R404A equipment. With a GWP 148, it falls under the important maximum value of 150 in the F-Gas regulation and Ecodesign. Could be adopted with EN 378 with higher charge size compared with Hydrocarbons.

Product specification

Cylinders size in litres	Content in kg	Item number
12	9	119028
61	46	119027

- Advantages of R454C**
- A long-term solution
 - Low GWP (under 150, 96 % reduction versus R404A)
 - Close performance match to R404A; slightly reduced capacity, improved efficiency
 - Easily convertible from R404A and R22 design with minimal changes
 - Can be topped off after leaks
 - Non-toxic and mildly flammable
 - Allows >1.7 kg minimum filling charge under new Codes & Standards
 - Miscible with POE lubricants
 - Expected to be launched late 2017